BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to Roads and Drains at Yelahanka Old Town SC/ST area and AD colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	For RCC Drain	Cum							
	Yelahanka Old Town								
	Kote Road		2	200.00	1.20	1.10	528.00		
	4th cross		1	125.00	1.10	1.10	151.25		
	Cross road		1	70.00	1.10	1.10	84.70		
	For RCC Culvert		3	5.00	1.60	1.00	24.00		
	For Concrete Road	Cum							
	Yelahanka Old Town								
	Road Opp. Anganwadi		1	25.00	3.00	0.30	22.50		
			1	30.00	3.50	0.30	31.50		
			1	20.00	3.00	0.30	18.00		
			1	70.00	3.50	0.30	73.50		
	At Samudaya Bhavana Surrounding								
			1	30.00	3.00	0.30	27.00		
			1	35.00	3.50	0.30	36.75		
			1	57.00	3.00	0.30	51.30		
							1048.50	**215.28**	**225721.08**
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	**215.28**							
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain	Cum							
	Yelahanka Old Town								
	Kote Road		2	200.00	1.20	0.15	72.00		
	4th cross		1	125.00	1.10	0.15	20.63		
	Cross road		1	70.00	1.10	0.15	11.55		
	For RCC Culvert		3	5.00	1.60	0.15	3.60		
	For Concrete Road	Cum							
	Yelahanka Old Town								
	Road Opp. Anganwadi		1	25.00	3.00	0.15	11.25		
			1	30.00	3.50	0.15	15.75		
			1	20.00	3.00	0.15	9.00		
			1	70.00	3.50	0.15	36.75		

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	At Samudaya Bhavana Surrounding								
			1	30.00	3.00	0.15	13.50		
			1	35.00	3.50	0.15	18.38		
			1	57.00	3.00	0.15	25.65		
							238.05	**5421.90**	**1290683.30**
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	For RCC Drain	Cum							
	Yelahanka Old Town								
	Bottom slab								
	Kote Road		2	200.00	1.20	0.15	72.00		
	4th cross		1	125.00	0.90	0.15	16.88		
	Cross road		1	70.00	0.90	0.15	9.45		
	side walls								
	Kote Road		4	200.00	0.15	0.65	78.00		
	4th cross		2	125.00	0.15	0.65	24.38		
	Cross road		2	70.00	0.15	0.65	13.65		
							214.35		
	For RCC Culvert								
	Raft		3	5.00	1.40	0.20	4.20		
	Walls		6	5.00	0.20	0.60	3.60		
							7.80		
					Net Qty.		**222.15**	**7070.20**	**1570644.93**
	Basic Rate Rs.=	6670.00							
	Add 6% A.W Rs. =	400.20							
	Total Rate Rs. =	**7070.20**							
4	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Considering steel For Drain @ 70 kg / cum	Tonne		214.35	0.070	--	15.00		
	Considering steel For Culvert @ 100 kg / cum			7.80	0.100	--	0.78		
							15.78	**73992.24**	**1167930.51**
	Basic Rate Rs.=	69804.00							
	Add 6% A.W Rs. =	4188.24							
	Total Rate Rs. =	**73992.24**							

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
5	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	Yelahanka Old Town								
	Kote Road		2	200.00	0.90	--	360.00		
	4th cross		1	125.00	0.75	--	93.75		
	Cross road		1	70.00	0.75	--	52.50		
							506.25	**2337.00**	**1183106.25**
6	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For Culvert Slabs	Sqm	3	5.00	1.20	--	**18.00**	**5418.00**	**97524.00**
7	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. (P.No-176,I No-22.6.1)								
	For Concrete Road	Cum							
	Yelahanka Old Town								
	Road Opp. Anganwadi		1	25.00	3.00	0.150	11.25		
			1	30.00	3.50	0.150	15.75		
			1	20.00	3.00	0.150	9.00		
			1	70.00	3.50	0.150	36.75		
	At Samudaya Bhavana Surrounding								
			1	30.00	3.00	0.150	13.50		
			1	35.00	3.50	0.150	18.38		
			1	57.00	3.00	0.150	25.65		
							130.28	**5210.96**	**678857.81**
	Basic Rate Rs.=	4916.00							
	Add 6% A.W Rs. =	294.96							
	Total Rate Rs. =	**5210.96**							
8	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift. (Page No 176 Item No 22.7)								
	For Concrete Road	Sqm							
	Yelahanka Old Town								

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
	Road Opp. Anganwadi		1	25.00	3.00		75.00		
			1	30.00	3.50		105.00		
			1	20.00	3.00		60.00		
			1	70.00	3.50		245.00		
	At Samudaya Bhavana Surrounding								
			1	30.00	3.00		90.00		
			1	35.00	3.50		122.50		
			1	57.00	3.00		171.00		
							868.50	**72.08**	**62601.48**
	Basic Rate Rs.=	68.00							
	Add 6% A.W Rs. =	4.08							
	Total Rate Rs. =	**72.08**							
9	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 (KPWD SR 2016-17, Page No.5, Item No.2.3)								
		Cum							
	Rate Analysis								
	Basic Rate	189.00							
	Area Weightage @8%	15.12							
	Total Amount	**204.12**							
	For Column Footing	F1	4	1.05	1.35	1.80	10.21		
		F2	4	1.20	1.20	1.80	10.37		
	SSM Foundation								
			2	5.02	0.90	1.00	9.04		
			2	11.58	0.90	1.00	20.84		
							50.45		
	30% Deduction for Rock Cutting						-15.14		
						Total Quantity	**35.32**	**204.12**	**7209.07**
10	KSRB 2-2.4 : Excavation 1.5m and above in width in soft rock without blasting for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches not exceeding 1.5 m. in depth, stacking the excavated stuff from edges of excavation with lead upto 50m including cost of explosives, labour and HOM of equipment complete as per specifications. specification. No. KBS 2.1.C / 2.9.4 / 2.18 / 2.19 (KPWD SR 2016-17, Page No.5, Item No.2.6)								
		Cum							
	Rate Analysis								
	Basic Rate	883.00							
	Area Weightage @8%	70.64							
	Total Amount	**953.64**							
	Vide Quantity from item no.	9							
							15.14		
						Total Quantity	**15.14**	**953.64**	**14434.49**
11	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications. (KPWD SR 2016-17, Page No.6, Item No.2.11)								
		Cum							
	Rate Analysis								

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
	Basic Rate	76.00							
	Area Weightage @8%	6.08							
	Total Amount	**82.08**							
	Vide Quantity from item no.		10				50.45		
							Total Quantity	**50.45**	**82.08**	**4141.26**
12	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892Cum and fine aggregates @ 0.465Cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1,4.2 (KPWD SR 2016-17, Page No.12, Item No.4.2)								
		Cum							
	Rate Analysis								
	Basic Rate	5046.00							
	Area Weightage @8%	403.68							
	Total Amount	**5449.68**							
	For Column Footing	F1	4	1.05	1.35	0.15	0.85		
		F2	4	1.20	1.20	0.15	0.86		
	SSM Foundation		2	5.02	0.90	0.15	1.36		
			2	11.58	0.90	0.15	3.13		
	For Flooring		1	4.56	11.12	0.15	7.61		
							Total Quantity	**13.80**	**5449.68**	**75219.64**
13	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (Page No. 13, It No. 4.10 of KPWD S.R 2016-17)								
		Cum							
	Rate Analysis								
	Basic Rate	6221.00							
	Area Weightage @8%	497.68							
	Total Amount	**6718.68**							
	For Column Footing	F1	4	0.90	1.20	0.75	3.24		
		F2	4	1.05	1.05	0.75	3.31		
							Total Quantity	**6.55**	**6718.68**	**43990.56**

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
14	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (Page No. 13, It No. 4.11 of KPWD S.R 2016-17)								
		Cum							
	Rate Analysis								
	Basic Rate	6011.00							
	Area Weightage @8%	480.88							
	Total Amount	**6491.88**							
	Samudayabhavana								
	Column Pedstral	C1	4	0.60	0.60	0.75	1.08		
		C2	4	0.60	0.60	0.75	1.08		
	Column Upto Plinth	C1	6	0.23	0.45	0.30	0.19		
		C2	2	0.23	0.35	0.30	0.05		
	Plinth Beam		2	5.02	0.23	0.45	1.04		
			2	11.58	0.23	0.45	2.40		
	Column Upto Roof	C1	6	0.23	0.45	2.80	1.74		
		C2	2	0.23	0.35	2.80	0.45		
	Over all lintel		2	5.02	0.23	0.15	0.35		
			2	11.58	0.23	0.15	0.80		
	Cills								
	Window, W		2	1.40	0.23	0.10	0.06		
	Window, W1		2	1.00	0.23	0.10	0.05		
	Window, W2		2	1.10	0.23	0.10	0.05		
	Roof Beam	B1	4	5.02	0.30	0.30	1.81		
		B2	2	11.58	0.30	0.30	2.08		
	Roof Slab		1	6.22	12.78	0.15	11.92		
						Total Quantity	**25.14**	**6491.88**	**163219.76**
15	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and as per directions of the Engineer-in-charge. Specification No. KBS 4.6.3(Item no: 4.46.2, Page no: 17 of KPWD S.R 2016-17).								
		Tonne							
	Rate Analysis								
	Basic Rate	60607.00							
	Area Weightage @8%	4848.56							
	Total Amount	**65455.56**							
	Samudayabhavana								
	Footings @ 60Kg/cum			6.55			0.39		

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
	Columns @ 200Kg/cum			4.58			0.92		
	Plinth beam @80Kg/cum			3.44			0.27		
	Lintel @ 60Kg/cum			1.15			0.07		
	Cill @ 60Kg/cum			0.16			0.01		
	Roof Beam @ 150Kg/cum			3.89			0.78		
	Roof Slab @ 100Kg/cum			11.92			1.19		
						Total Quantity	**3.63**	**65455.56**	**237843.51**
16	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (Page No. 15, It No. 4.28 of KPWD S.R 2016-17)								
		Sqm							
	Rate Analysis								
	Basic Rate	231.00							
	Area Weightage @8%	18.48							
	Total Amount	**249.48**							
	For Column Footing								
		F1	4	4.20		0.750	12.60		
		F2	4	4.20		0.750	12.60		
						Total Quantity	**25.20**	**249.48**	**6286.90**
17	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (Page No. 16, It No. 4.32 of KPWD S.R 2016-17)								
		Sqm							
	Rate Analysis								
	Basic Rate	366.00							
	Area Weightage @8%	29.28							
	Total Amount	**395.28**							
	Samudayabhavana								
	Column Pedstral								
		C1	4	2.40		0.75	7.20		
		C2	4	2.40		0.75	7.20		
	Column Upto Plinth								
		C1	6	1.36		0.30	2.45		
		C2	2	1.16		0.30	0.70		
	Column Upto Roof								
		C1	6	1.36		2.80	22.85		
		C2	2	1.16		2.80	6.50		
						Total Quantity	**46.89**	**395.28**	**18533.89**
18	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (Page No. 16, It No. 4.34 of KPWD S.R 2016-17)								
		Sqm							
	Rate Analysis								
	Basic Rate	256.00							
	Area Weightage @8%	20.48							
	Total Amount	**276.48**							
	Samudayabhavana								

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Plinth Beam								
			4	5.02		0.45	9.04		
			4	11.58		0.45	20.84		
	Over all lintel								
			4	5.02		0.15	3.01		
			4	11.58		0.15	6.95		
	Cills								
	Window, W		4	1.40		0.10	0.56		
	Window, W1		4	1.00		0.10	0.40		
	Window, W2		4	1.10		0.10	0.44		
	Roof Beam								
		B1	4	5.02		0.90	18.07		
		B2	2	11.58		0.90	20.84		
						Total Quantity	80.16	276.48	22161.53
19	KSRB 4-6.9 :Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (Page No. 16, It No. 4.36 of KPWD S.R 2016-17)								
		Sqm							
	Rate Analysis								
	Basic Rate	678.00							
	Area Weightage @8%	54.24							
	Total Amount	**732.24**							
	Samudayabhavana								
	Roof Slab								
			2	6.22		0.15	1.87		
			2	12.78		0.15	3.83		
						Total Quantity	5.70	732.24	4173.77
20	KSRB 4-6.3 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per Specification. Specification No. KBS 4.6.2 (Page No. 15, It No. 4.30 of KPWD S.R 2016-17)								
		Sqm							
	Rate Analysis								
	Basic Rate	237.00							
	Area Weightage @8%	18.96							
	Total Amount	**255.96**							
	Samudayabhavana								
	Roof Slab								
			1	6.22	12.78		79.49		
	Chejja								
			0	1.40	0.60		0.00		
						Total Quantity	79.49	255.96	20346.67
21	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (KPWD SR 2016-17, Page No.23, Item No.5.6)								
		Cum							
	Rate Analysis								

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Basic Rate	4187.00							
	Area Weightage @8%	334.96							
	Total Amount	**4521.96**							
	For Foundation								
	Step-1		2	5.02	0.90	0.60	5.42		
			2	11.58	0.90	0.60	12.51		
	Step-2		2	5.02	0.75	0.45	3.39		
			2	11.58	0.75	0.45	7.82		
	Step-3		2	5.02	0.60	0.45	2.71		
			2	11.58	0.60	0.45	6.25		
	Front Steps		1	3.00	0.60	0.30	0.54		
			1	3.00	0.45	0.30	0.41		
						Total Quantity	**39.04**	**4521.96**	**176546.36**
22	KSRB 6-1.1 :Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 3.5 Newton per sqmm with mud mortar for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications Specification No. KBS 6.2. (KPWD SR 2016-17, Page No.27, Item No.6.1)								
		Cum							
	Rate Analysis								
	Basic Rate	5114.00							
	Area Weightage @8%	409.12							
	Total Amount	**5523.12**							
	For Wall								
			2	5.02	0.23	2.80	6.47		
			2	11.58	0.23	2.80	14.92		
	Deductions								
	Door, D		-1	1.20	0.23	2.10	-0.58		
	Window, W		-2	0.90	0.23	0.90	-0.37		
	Window, W1		-2	0.90	0.23	1.20	-0.50		
						Total Quantity	**19.93**	**5523.12**	**110085.72**
23	KSRB15-3.7 : Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (Page No. 113, It No. 15.15 of KPWD S.R 2016-17)								
		Sqm							
	Rate Analysis								
	Basic Rate	244.00							
	Area Weightage @8%	19.52							
	Total Amount	**263.52**							
	Samudayabhavana								
	Outside Plastering								
			2	5.02		3.15	31.63		
			2	11.58		3.15	72.95		
	Deductions								
	Door, D		-1	1.20		2.10	-2.52		
	Window, W		-2	0.90		0.90	-1.62		
	Window, W1		-2	0.90		1.20	-2.16		
						Total Quantity	**98.28**	**263.52**	**25898.75**

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
24	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (Page No. 114, It No. 15.21 of KPWD S.R 2016-17)								
		Sqm							
	Rate Analysis								
	Basic Rate	193.00							
	Area Weightage @8%	15.44							
	Total Amount	**208.44**							
	Samudayabhavana								
	Ceiling								
			1	4.56	11.12		50.71		
							Total Quantity	**50.71**	**208.44**	**10569.41**
25	KSRB15-3.4 : Providing 15mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (Page No. 113, It No. 15.12 of KPWD S.R 2016-17)								
		Sqm							
	Rate Analysis								
	Basic Rate	205.00							
	Area Weightage @8%	16.40							
	Total Amount	**221.40**							
	Samudayabhavana								
	Inside Plastering								
	0		2	4.56		3.10	28.27		
			2	11.12		3.10	68.94		
	Deductions								
	Door, D		-1	1.20		2.10	-2.52		
	Window, W		-2	0.90		0.90	-1.62		
	Window, W1		-2	0.90		1.20	-2.16		
							Total Quantity	**90.92**	**221.40**	**20128.80**
26	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. (Page No. 117, It No. 15.51.1 of KPWD S.R 2016-17)								
		Sqm							
	Rate Analysis								
	Basic Rate	71.00							
	Area Weightage @8%	5.68							
	Total Amount	**76.68**							
	Samudayabhavana								
	Same as the quantity of Plastering								
	Vide Qty of IteM No.	25	24	23			239.90		
							Total Quantity	**239.90**	**76.68**	**18395.78**

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
27	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12. (Page No. 32, It No. 7.9 of KPWD S.R 2016-17)								
		Kgs							
	Rate Analysis								
	Basic Rate	78.00							
	Area Weightage @8%	6.24							
	Total Amount	**84.24**							
	Window, W		2	0.90		0.90	1.62		
	Window, W1		2	0.90		1.20	2.16		
							3.78		
							7.56		
				21kgs per Sqm			158.76		
						Total Quantity	**158.76**	**84.24**	**13373.94**
28	KSRB 9.4-1 : Providing Teak wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33. (Page No. 51, It No. 9.10 of KPWD S.R 2016-17)								
		Cum							
	Rate Analysis								
	Basic Rate	185914.00							
	Area Weightage @8%	14873.12							
	Total Amount	**200787.12**							
	Door, D		1	6.60	0.15	0.075	0.07		
						Total Quantity	**0.07**	**200787.12**	**14908.44**
29	KSRB 9.5-1 : Providing and fixing in position fully panelled Teak wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34 (Page No.51, It No. 9.14 of KPWD S.R 2016-17)								
		Sqm							
	Rate Analysis								
	Basic Rate	8300.00							
	Area Weightage @8%	664.00							
	Total Amount	**8964.00**							
	Door, D		1	1.20		2.10	2.52		
						Total Quantity	**2.52**	**8964.00**	**22589.28**
30	Providing and fixing aluminium fixtures like aldrops of size 300 X 16mm towe bolts of size 200 X 12 mm, Latches of size 250 X 12 mm, 100mm length oxidized iron hinges, handles of size 150mm, door stopper and door brush of approved make and quality including cost and conveyance of all materials and as per the direction of EIC of work with all lead and lift and as directed by the engineer incharge of work, Single shutter.								
		Sqm							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
27	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12. (Page No. 32, It No. 7.9 of KPWD S.R 2016-17)								
		Kgs							
	Rate Analysis								
	Basic Rate	78.00							
	Area Weightage @8%	6.24							
	Total Amount	**84.24**							
	Window, W		2	0.90		0.90	1.62		
	Window, W1		2	0.90		1.20	2.16		
							3.78		
							7.56		
				21kgs per Sqm			158.76		
						Total Quantity	**158.76**	**84.24**	**13373.94**
28	KSRB 9.4-1 : Providing Teak wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33. (Page No. 51, It No. 9.10 of KPWD S.R 2016-17)								
		Cum							
	Rate Analysis								
	Basic Rate	185914.00							
	Area Weightage @8%	14873.12							
	Total Amount	**200787.12**							
	Door, D		1	6.60	0.15	0.075	0.07		
						Total Quantity	**0.07**	**200787.12**	**14908.44**
29	KSRB 9.5-1 : Providing and fixing in position fully panelled Teak wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34 (Page No.51, It No. 9.14 of KPWD S.R 2016-17)								
		Sqm							
	Rate Analysis								
	Basic Rate	8300.00							
	Area Weightage @8%	664.00							
	Total Amount	**8964.00**							
	Door, D		1	1.20		2.10	2.52		
						Total Quantity	**2.52**	**8964.00**	**22589.28**
30	Providing and fixing aluminium fixtures like aldrops of size 300 X 16mm towe bolts of size 200 X 12 mm, Latches of size 250 X 12 mm, 100mm length oxidized iron hinges, handles of size 150mm, door stopper and door brush of approved make and quality including cost and conveyance of all materials and as per the direction of EIC of work with all lead and lift and as directed by the engineer incharge of work, Single shutter.								
		Sqm							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Rate Analysis								
	Basic Rate	4344.00							
	Area Weightage @8%	347.52							
	Total Amount	**4691.52**							
			3				3.00		
						Total Quantity	**3.00**	**4691.52**	**14074.56**
31	KSRB 15-17.6 : Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. (Page No.119, It No. 15.60.1 of KPWD S.R 2016-17)								
		Sqm							
	Rate Analysis								
	Basic Rate	84.00							
	Area Weightage @8%	6.72							
	Total Amount	**90.72**							
	Door, D		2	1.20		2.10	5.04		
						Total Quantity	**5.04**	**90.72**	**457.23**
32	KSRB 15-17.8 : Extra over Item No. 15-17.6 for applying every subsequent coat of enamel paint to give an even shade after cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. (Page No.119, It No. 15.60.2 of KPWD S.R 2016-17)								
		Sqm							
	Rate Analysis								
	Basic Rate	48.00							
	Area Weightage @8%	3.84							
	Total Amount	**51.84**							
	Door, D		2	1.20		2.10	5.04		
						Total Quantity	**5.04**	**51.84**	**261.27**
33	Providing and fixing 20mm thick gang saw water cut LAKARED granite in CM 1:4 proportion with a coat of rough plastering using CM 1:4, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing etc., complete including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification . (P.No. 109, I.No. 14.60 of PWD SR 2016-17)								
		Sqm							
	Rate Analysis								
	Basic Rate	3695.00							
	Area Weightage @8%	295.60							
	Total Amount	**3990.60**							
	Samudayabhavana								
	Flooring								
			1	4.56	11.12		50.71		
						Total Quantity	**50.71**	**3990.60**	**202352.15**

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
34	Providing and fixing of wall cladding using 20 mm thick gang saw water cut granite in CM 1:3 proportion cut to required shape patron with paper joint finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm × 12mm grooves in joints including curing etc., complete - with grey granite 20mm thick gang saw with minimum width 1200.(Page No.110, It No. 14.67.1 of KPWD S.R 2016-17								
		Sqm							
	Rate Analysis								
	Basic Rate	2295.00							
	Area Weightage @8%	183.60							
	Total Amount	**2478.60**							
	Samudayabhavana								
	Inside								
			2	4.56		2.10	19.15		
			2	11.12		2.10	46.70		
	Outside								
			1	3.46		3.10	10.73		
	Deductions								
	Door, D		-2	1.20		2.10	-5.04		
	Window, W		-4	0.90		0.90	-3.24		
	Window, W1		-2	0.90		1.20	-2.16		
						Total Quantity	66.14	**2478.60**	**163939.56**
35	KSRB 10-3 : Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications. (P.No. 66, I.No. 10.2 of PWD SR 2016-17)								
		Sqm							
	Rate Analysis								
	Basic Rate	904.00							
	Area Weightage @8%	72.32							
	Total Amount	**976.32**							
	Terrace								
			1	4.96	11.52		57.14		
						Total Quantity	57.14	**976.32**	**55786.14**

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
36	Supplying heavy gauge PVC conduit pipe..... dia confirming to IS 2509 with suitable size benda, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. (ELE SR 2014-15Page-2, Item-1.1.2)								
		m							
	b) 25mm dia 2mm thick								
	Concealed Conduit System		25				25.00		
						Total Qty	**25.00**	**70.00**	**1750.00**
37	Supplying..... mm dia 2mm/2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary. (ELE SR 2014-15 Page-2, Item-1.2.2)								
		m							
	b) 25mm dia 2mm thick								
			25				25.00		
						Total Qty	**25.00**	**57.00**	**1425.00**
38	Groove cutting in the wall supplying.....dia 2mm/2.5mm thick heavy gauge PVC Conduit Pipe with bends, metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out conduit wherever necessary. (ELE SR 2014-15 Page-2, Item-1.3.2)								
		m							
	b) 25mm dia 2mm thick								
			30				30.00		
						Total Qty	**30.00**	**58.00**	**1740.00**
39	Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of approved make etc.(ELE SR 2010 11 Page-2, Item-1.4)								
		each							
	c) 135x75x65mm		5				5.00	**102.00**	**510.00**
	d)180x90x65mm		5				5.00	**110.00**	**550.00**
	e)200x90x65mm		5				5.00	**120.00**	**600.00**
40	Supplying and fixing PVC/metal conduit accessories.(3/5) (ELE SR 2014-15 Page-3, Item-1.5.3)								
	1. Special type junction box	each							
	d)40mm junction box		5				5.00	**53.00**	**265.00**
	2. Deep junction box								
	c) 32mm deep junction box		5				5.00	**65.00**	**325.00**
41	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work cpmplete.(ELE SR 2014-15 Page-3, Item-6)								
		m							
	a)12xx"12"x3" (330x300x76mm		5				5.00	**116.00**	**580.00**
	b)12"x9"x3" (300x228x76)		5				5.00	**98.00**	**490.00**
42	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. compelete for each outlet. (ELE SR 2014-15 Page-3, Item-8)								

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
		each							
	a) Short point up to 3Mtr from tapping point to out let via		5				5.00	174.00	870.00
	b) Medium point above 3Mtr up to 6Mtr from tapping point to		5				5.00	245.00	1225.00
43	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using copper PVC insulated multi strand 2x1.5Sqmm copper wire without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. (ELE SR 2014-15 Page-4, Item-9)								
		each							
	a) Short point up to 3Mtr from tapping point to out let via		5				5.00	144.00	720.00
	b) Medium point above 3Mtr up to 6Mtr from tapping point to		5				5.00	215.00	1075.00
44	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. (ELE SR 2014-15 Page-16, Item-3.6.3)								
	I.Group-A	each							
	e) 6Moudule		10				10.00	173.00	1730.00
45	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate..(ELE SR 2014-15								
	I.Using Group "A" materials	each							
	a) 6Amps one way.		10				10.00	63.00	630.00
	i) 32Amps DP switch		10				10.00	164.00	1640.00
	j) 6/16Amps universal socket		5				5.00	147.00	735.00
46	Supplying and fixing 32Amps security and energy saving DP switch with key tag suitable to operate on 230 Volts, 50Hz AC supply &completely wired on existing box. (ELE SR 2014-15 Page-17, Item-3.8)								
	I.Using Group "A" materials	each							
			10				10.00	168.00	1680.00
47	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multistrand Copper conductor single core cable in open or concealed system of wiring. (ELE SR 2014-15 Page-6, Item-2.5)								
	I. Group A.	m							
	a. 1 sqmm.		25				25.00	13.00	325.00
	b. 1.5 sqmm		25				25.00	18.60	465.00
	C.6 sqmm		25				25.00	56.80	1420.00
48	Supplying and fixing of PVC casing and capping on the wall or ceilng using necessary materials like bends, screws at an interval of 300mm .... Etc as required. (ELE SR 2014-15)								
		m							
	a) 20mm		15				15.00	24.00	360.00
49	Supplying PVC/GI flexible conduit pipe....mm dia fixing on surface over inverted wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and either end of the pipe terminated completely. (ELE SR 2014-15 Page-03, Item-1.8)								
		Nos							
	a) 20mm		15				15.00	23.00	345.00

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
50	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit using necessary machine screws. (ELE SR 2014-15 Page-11, Item26)								
		Nos							
	b) 110mm		15				15.00	8.75	131.25
51	Supplying a 50mm wooden plug, tapered from 50x50mm to 25x25mm and fixing by using								
		Nos							
			15				15.00	4.00	60.00
								Sub Total 1 Rs.	7765644.05
	Add GST @ 12% for 2018-19 KPWD SR items								745736.15
	Add KRIDL @ 4%								310625.76
	DPR & PMC Charges including GST								177000.00
	Sub Total 2 Rs.								8999005.96
	Miscellaneous & Rounding off								994.04
	Total Rs.								9000000.00

CERTIFICATE:

1 The work spot has been inspected by me and the work is found to be necessary.

The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2018-2019 and 2016-17,

2 KPWD Electrical SR 2014-15.

3 The Provisions made in the estimate are quite necessary and adequate.

4 The area comes with in the BBMP limits.

Assistant Engineer
Ward 02
BBMP

Assistant Executive Engineer
Yelahanka Sub Division
BBMP

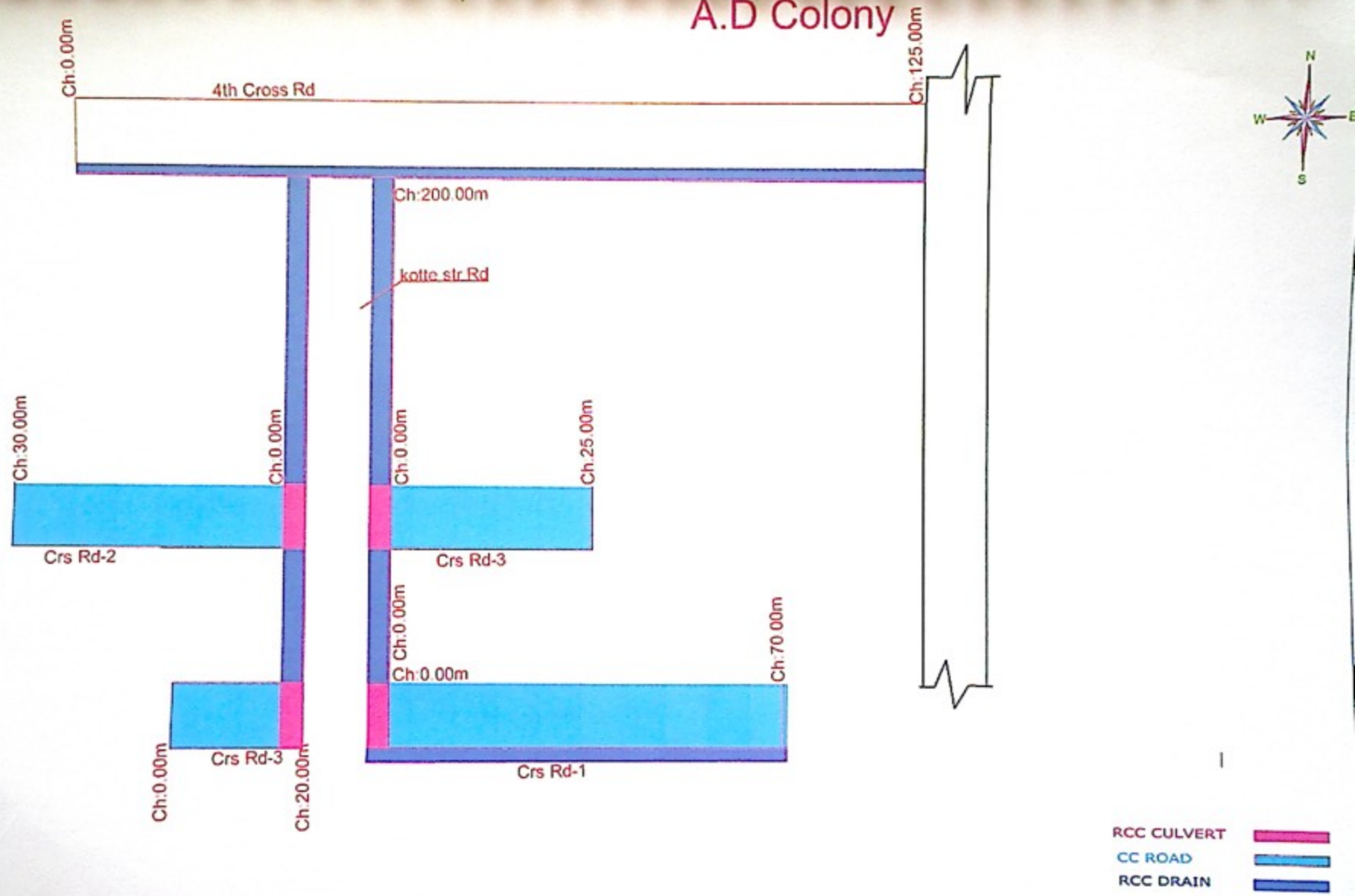
Executive Engineer
Yelahanka Division
BBMP

Administrative Sanction for Rs. ...90.00 Lakhs
...Ninety Lakhs only...
is accorded under head ...P.3727...
Chief minister Nava Nagarothana
grants 2018-19
red as CS No
ing cost
EE/YNK/CS/29/2019-20 28/10/2019
Executive Engineer

Technical Sanction
Accorded For RS 90.00 Lakhs only
Head of A/C...P.3727
CER NO :...107... Dt:28.10.2019

TA — CE (YNK)

A.D Colony



CLIENT: BRUHAT BANGALORE MAHANAGARA PALIKE	CONSULTANT:- NEWZEN CONSULTANTS BANGALORE #13,10th MAIN 2nd CROSS, JNANAJYOTHI NAGARA, JNANA BHARATHI, , BANGALORE – 560 056 PH:8792620231, E-mail: kumar.vinay631@gmail.com	Assitante Engineer	Assitante Executive Engineer	Executive Engineer	Dwg Title Improvements to Roads And drains at Yalahanka Old town SC/ST Area and AD Colony Surrounding area Ward No-02 of Yalahanka sub division Dwg no:
					scale, N.T.S Date Rev: R0